

White paper

Optimum use of FUJITSU Accessories USB Port Replicators

This White Paper mainly focuses on USB Port Replicators and its application scenarios in the professional offices business environment.

Basically there are two different docking options for connecting mobile devices with peripheral desktop equipment like monitors, keyboard/mice, headsets, storages, LAN, etc.

A. Product-specific Port Replicators



B. Universal USB Port Replicators



The main difference between these is that product-specific Port Replicators (picture A) only grind through the connected notebook performance, while USB Port Replicators (picture B) generate their own system independent performance which extends the overall workplace performance to a certain defined standard (e.g. two times Full-HD - monitor performance).

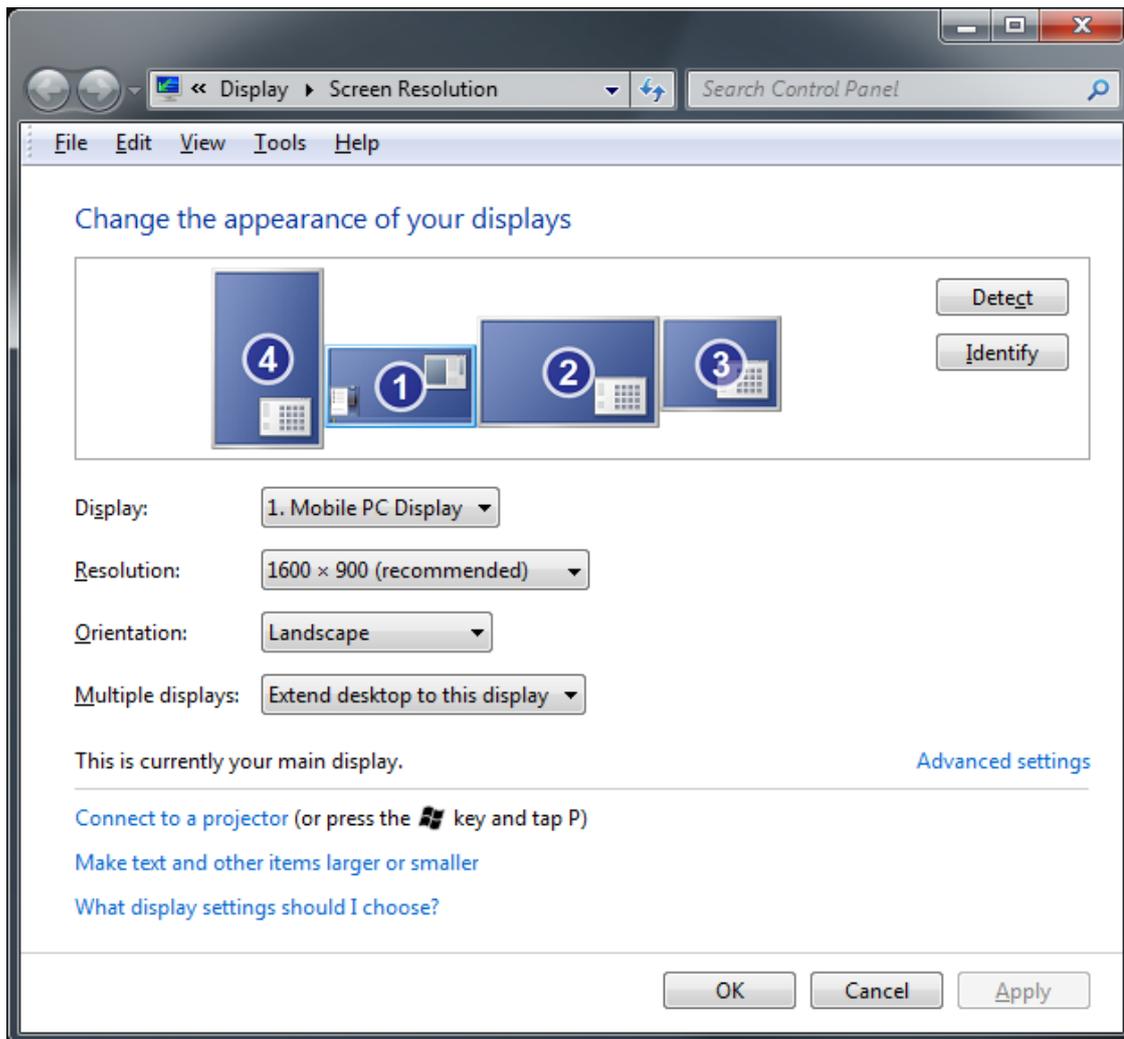
USB Port Replicators are not system-specific and can be used with any mobile device with a standard USB port.

After installing the driver on the mobile device, the USB Port Replicator is ready to work. Independent of operating system and notebook there is **only one driver** necessary running all the FUJITSU USB Port Replicators. Backwards compatibility is guaranteed. Replacing an USB Port Replicator is plug&play only.

You simply **adjust each monitor connected** by choosing - "extended" or "mirrored" - and overtake the recommended respective preferred resolution in your system settings.

Below you will see how to change the appearance of your displays attached.

Control Panel > Appearance and Personalization > Display > Adjust Screen Resolution



The workplace individual settings are stored within the notebook (driver) and will be reused after docking in again, even if in the meantime another user has been connected to that workplace or you have worked elsewhere. Just plug in and work!

This universal driver is provided from four possible sources:

- 1.) Delivered with the FUJITSU USB Port Replicator package content (driver CD)
- 2.) Fujitsu web support www.fujitsu.com/fts/support/ (newer version tested by FUJITSU)
- 3.) DisplayLink web site <http://www.displaylink.com/downloads/> (latest version not yet tested)
- 4.) Via Windows Update (initial version must be installed)

There is also a **corporate installer** driver version available. It supports companies that run silent installation e.g. via PXE using the Wake-on-LAN support of the USB Port Replicators.

The highlight of USB Port Replicators is the internal powerful **DisplayLink chipset** that offers the most powerful graphic performance -up to UHD with 4k resolution.

This leads to a workplace performance that **exceed the notebook's graphic output** (you can e.g. run a Full-HD monitor even if your Notebook only supports a lower graphic resolution).

USB Port Replicators **average energy usage:**

- peripherals unplugged, power plugged 1.5W
- PC sleep / Hibernate, peripherals 7 W
- max. full throttle peripherals, with video playing 14 W

Beside highest graphics quality, USB Port Replicators provide an extra Gigabit-LAN that is independent from the system, which enables a second network to run in parallel. Several USB hubs, USB charging and audio supplement the equipment. An integrated Kensington slot adds extra security.

One of the most important features of the USB Port Replicator is it can be placed in different positions

- on-desk, using less space at the workplace edge, wherever you want
- under-desk, cable tunnel, drawer
- fixed on the backside of a monitor.

Such flexibility is a prerequisite for future standard clean desk office workplace concepts.

The typical office workplace in the next few years will have at least two powerful monitors that are fix equipped to the workplace. By plugging in **only one USB cable** from the USB Port Replicator the user automatically connects to the company's IT. The USB Port Replicators enable the end user to use their own devices, independent from type of device - independent of vendor. (BYOD - Bring Your Own Device).

Unlike model-specific Port Replicators, an USB Port Replicator can be further continuously used even after upgrading your system hardware. This is pure **investment protection** (TCO).

The typical **future workplace scenario** is a clean desktop set-up with clearly defined access rules according company IT schemes. **USB Port Replicators will be the key devices** e.g. in conjunction with power control bar equipment like the **FUJITSU Workplace Connect Kits**.

This enables comfortable and secure access with convenient usage of office desktop peripherals like headsets, flash sticks, charging mobile phones, storage devices, etc. Power saving is supported by an ON/OFF switch bringing the whole equipment attached down to zero energy usage.



Workplace Connect Kit 1.0
with integrated
USB Port Replicator PR08



After already selling over 100.000 pieces of FUJITSU USB Port Replicators within the last years, this kind of devices will be the clear industry standard for connecting mobile devices to fix installed company IT equipment. Many big international customers like BOSCH, Festo, Siemens, etc. already tend to further extend their future workplace scenarios considering the implementation of USB Port Replicators.

The FUJITSU USB Port Replicators come with certifications for the world-wide most important regions like EU, US, Japan, Australia/NewZealand.

FUJITSU is further working on permanently extending the USB Port Replicator portfolio considering new IT industry trends. The success story will go on.

USB Port Replicator overview:

	PR7.1	PR08	PR8.1
Graphic	Single Head	Dual Head	Dual Head
Graphic interface	HDMI <u>or</u> DVI-I	DisplayPort <u>and</u> DVI-I	DisplayPort <u>or</u> HDMI <u>and</u> DVI-I
Max. resolution	2048 x 1152	2560 x 1600	3840 x 2160 (UHD/4k)
LAN	Gigabit-LAN	Gigabit-LAN	Gigabit-LAN
Audio	no	Line-out / mic.	no
USB Hubs, total	3	4	3 (1x BC1.2 charging)
Order Number	S26391-F6007-L310	S26391-F6007-L400	S26391-F6007-L410
Shipment	Available	Available	January 2016